

(Absence of an entry indicates that the data were not estimated.)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
AgB: Allegheny-----	0-9	Loam	ML	A-4	0	0	90-100	85-100	70-95	50-75	15-35	NP-10
	9-33	Clay loam, loam	CL, CL-ML, ML	A-4, A-6, A-7-6	0	0-5	90-100	85-100	70-100	50-80	25-45	5-15
	33-49	Silty clay, silty clay loam	CL, CL-ML, ML	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-95	25-45	5-15
	49-66	Weathered bedrock			---	---	---	---	---	---	---	---
AgC: Allegheny-----	0-9	Loam	ML	A-4	0	0	90-100	85-100	70-95	50-75	15-35	NP-10
	9-33	Clay loam, loam	CL-ML, ML, CL	A-6, A-7-6, A-4	0	0-5	90-100	85-100	70-100	50-80	25-45	5-15
	33-49	Silty clay, silty clay loam	CL, CL-ML, ML	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-95	25-45	5-15
	49-66	Weathered bedrock			---	---	---	---	---	---	---	---
CaC: Clymer-----	0-12	Loam	ML, SM	A-4	0	0-5	85-100	75-95	60-90	35-85	10-30	NP-9
	12-37	Channery clay loam	GC, GM, ML, SM	A-2, A-4	0	0-20	60-95	50-95	45-85	30-60	14-32	NP-9
	37-52	Very channery clay loam	GC, GM, GP- GM, SM	A-1, A-2, A-3, A-4	0	10-30	30-75	25-70	20-60	5-40	14-32	NP-9
	52-56	Weathered bedrock			---	---	---	---	---	---	---	---
CDD: Clymer-----	0-12	Channery loam	GM, ML, SM	A-2, A-4	0	0-15	60-80	50-70	45-65	30-60	10-30	NP-9
	12-37	Sandy loam, channery loam, channery clay loam	GC, GM, ML, SM	A-2, A-4	0	0-20	60-95	50-95	45-85	30-60	14-32	NP-9
	37-52	Very channery clay loam	GC, GM, GP- GM, SM	A-1, A-2, A-3, A-4	0	10-30	30-75	25-70	20-60	5-40	14-32	NP-9
	52-56	Weathered bedrock			---	---	---	---	---	---	---	---
Dekalb-----	0-3	Channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-30	50-90	45-80	40-75	20-55	10-32	NP-10
	3-20	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-80	40-75	20-55	15-32	NP-9
	20-30	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand, very channery sandy loam	GC, GM, SC, SM	A-1, A-2, A-4	0	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
CDE: Clymer-----	0-12	Channery loam	GM, ML, SM	A-2, A-4	0	0-15	60-80	50-70	45-65	30-60	10-30	NP-9
	12-37	Sandy loam, channery loam, channery clay loam	GC, GM, ML, SM	A-2, A-4	0	0-20	60-95	50-95	45-85	30-60	14-32	NP-9
	37-52	Channery loam, very channery loam, channery sandy loam	GC, GM, GP- GM, SM	A-1, A-2, A-3, A-4	0	10-30	30-75	25-70	20-60	5-40	14-32	NP-9

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index			
			Unified	AASHTO	>10 inches	3-10 inches	4						10	40	200
	In				Pct	Pct					Pct				
	52-56	Weathered bedrock			---	---	---	---	---	---	---	---			
Dekalb-----	0-3	Channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-30	50-90	45-80	40-75	20-55	10-32	NP-10			
	3-20	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-80	40-75	20-55	15-32	NP-9			
	20-30	Very channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	0	10-50	45-85	25-75	20-65	15-40	15-32	NP-9			
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---			
CDF: Clymer-----	0-12	Channery loam	GM, ML, SM	A-2, A-4	0	0-15	60-80	50-70	45-65	30-60	10-30	NP-9			
	12-37	Sandy loam, channery loam, channery clay loam	GC, GM, ML, SM	A-2, A-4	0	0-20	60-95	50-95	45-85	30-60	14-32	NP-9			
	37-52	Channery loam, very channery loam, channery sandy loam	GC, GM, GP- GM, SM	A-1, A-2, A- 3, A-4	0	10-30	30-75	25-70	20-60	5-40	14-32	NP-9			
	52-56	Weathered bedrock			---	---	---	---	---	---	---	---			
Dekalb-----	0-3	Channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-30	50-90	45-80	40-75	20-55	10-32	NP-10			
	3-20	Very channery sandy loam, channery loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-80	40-75	20-55	15-32	NP-9			
	20-30	Very channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	0	10-50	45-85	25-75	20-65	15-40	15-32	NP-9			
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---			
CoB: Coolville-----	0-7	Silt loam	CL-ML, ML	A-4, A-6	0	0	95-100	90-100	80-100	70-90	24-40	4-12			
	7-22	Silty clay loam	CL, ML	A-6, A-7	0	0	95-100	85-100	80-100	75-95	35-52	10-25			
	22-47	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0-5	95-100	85-100	80-100	75-95	45-65	20-36			
	47-60	Silty clay, channery silty clay loam, silty clay loam	CH, CL	A-7	0	0-5	95-100	60-100	55-100	50-95	45-65	20-36			
	60-64	Weathered bedrock			---	---	---	---	---	---	---	---			
CoC: Coolville-----	0-7	Silt loam	CL-ML, ML	A-4, A-6	0	0	95-100	90-100	80-100	70-90	24-40	4-12			
	7-22	Silty clay loam	CL, ML	A-6, A-7	0	0	95-100	85-100	80-100	75-95	35-62	12-25			
	22-47	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0-5	95-100	85-100	80-100	75-95	45-65	20-36			
	47-60	Silty clay, channery silty	CH, CL	A-7	0	0-5	95-100	60-100	55-100	50-95	45-65	20-36			

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches						
							4	10	40	200		
	In				Pct	Pct					Pct	
CrC3: Coolville-----		clay loam, silty clay loam										
	60-64	Weathered bedrock			---	---	---	---	---	---	---	---
	0-7	Silty clay loam	CL, ML	A-4, A-6	0	0	95-100	90-100	85-100	75-100	25-50	8-18
	7-22	Silty clay loam	ML	A-6, A-7	0	0	95-100	85-100	80-100	75-95	35-55	10-25
	22-47	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0-5	95-100	85-100	80-100	75-95	45-65	20-36
	47-60	Silty clay, channery silty clay loam, silty clay loam	CH, CL	A-7	0	0-5	95-100	60-100	55-100	50-95	45-65	20-36
	60-64	Weathered bedrock			---	---	---	---	---	---	---	---
Ct: Cotaco-----	0-14	Loam	CL-ML, ML, SC-SM, SM	A-4	0	0-5	80-100	75-95	55-85	35-80	15-30	NP-7
	14-60	Clay loam, loam	CL, GC, SC, SM	A-1-b, A-2, A-4, A-6	0	0-10	85-100	85-95	40-90	20-80	15-35	NP-15
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
Dm: Dumps-----	---	---	---	---	---	---	---	---	---	---	---	---
FL: Fluvaquents-----	---	---	---	---	---	---	---	---	---	---	---	---
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
GlC: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
GlD: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
GlE: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam,	GC, GC-GM	A-1, A-2, A- 4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches						
							4	10	40	200		
	In				Pct	Pct					Pct	
GpC: Gilpin-----		very channery silty clay loam										
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Upshur-----	0-4	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	65-90	25-55	5-22
	4-28	Silty clay, clay	CH, CL	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40
	28-36	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	36-67	Weathered bedrock			---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	
GpD: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
	0-4	Silt loam	CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	65-90	25-60	5-20
	4-28	Silty clay, clay	CH, CL	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40
Upshur-----	28-36	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	36-67	Weathered bedrock			---	---	---	---	---	---	---	---
	Other soils-----	---	---	---	---	---	---	---	---	---	---	
	GRE: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40
11-30		Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
30-35		Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
35-39		Unweathered bedrock			---	---	---	---	---	---	---	---
0-4		Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	65-90	25-60	5-25
4-28		Silty clay, clay	CH, CL	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Other soils-----	28-36	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	36-67	Weathered bedrock			---	---	---	---	---	---	---	---
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GRF: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Upshur-----	0-4	Silt loam	CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	65-90	25-60	5-20
	4-28	Silty clay, clay	CH, CL	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40
	28-36	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	36-67	Weathered bedrock			---	---	---	---	---	---	---	---
GsC3: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Upshur-----	0-4	Silty clay loam	CL, ML	A-6, A-7	0	0	95-100	95-100	90-100	80-95	35-60	11-25
	4-28	Silty clay, clay	CH, CL	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40
	28-36	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-7, A-6	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	36-67	Weathered bedrock			---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
GsD3: Gilpin-----	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	11-30	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	0	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	30-35	Very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	0	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

[illegible]



Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches						
					4	10	40	200				
	In				Pct	Pct					Pct	
UC:												
Udorthents, smoothed-----	---	---	---	---	---	---	---	---	---	---	---	---
Urban land-----	---	---	---	---	---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
UD:												
Udorthents-----	---	---	---	---	---	---	---	---	---	---	---	---
Wet minesoil----	---	---	---	---	---	---	---	---	---	---	---	---
Ue:												
Urban land-----	---	---	---	---	---	---	---	---	---	---	---	---
Uf:												
Urban land-----	---	---	---	---	---	---	---	---	---	---	---	---
Fluvaquents-----	---	---	---	---	---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
Uk:												
Urban land-----	0-6	Bedrock			0	---	---	---	---	---	0-14	---
Kanawha-----	0-9	Fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0	80-100	75-100	45-85	25-55	15-25	NP-5
	9-16	Fine sandy loam, silt loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	75-100	50-100	30-90	20-35	2-12
	16-52	Loam, clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	75-100	60-100	25-80	20-40	3-15
	52-60	Fine sandy loam, gravelly fine sandy loam, sandy clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	60-100	55-100	40-95	20-60	20-35	2-12
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Ut:												
Urban land-----	0-6	Bedrock			0	---	---	---	---	---	0-14	---
Tyler-----	0-14	Silt loam	ML	A-4	0	0	100	95-100	90-100	75-95	30-40	4-10
	14-20	Silty clay loam, silt loam	CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-45	8-20
	20-60	Silty clay loam, silt loam, clay loam	CL	A-4, A-6, A-7	0	0	90-100	85-100	80-100	65-95	25-45	8-20
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Robertsville----	---	---	---	---	---	---	---	---	---	---	---	---
VaB:												
Vandalia-----	0-4	Silt loam	ML, CL	A-4, A-6, A-7	0	0-5	80-100	75-100	70-95	50-90	19-60	5-20
	4-41	Silty clay loam, channery silty clay	CH, CL	A-6, A-7	0	0-5	75-100	70-95	65-90	60-85	35-60	15-30
	41-72	Silty clay, channery silty clay loam	CH, CL	A-6, A-7	0	0-5	70-100	65-100	60-100	55-100	30-60	10-30

Table H.--Engineering Index Properties--Continued

[illegible]